



12-27-04

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of: Barbara E. Blum
Application No.: 10/743,620

Filed: 12/22/2003

For: High-Yield Extraction of
Osteoinductive Agents from DBM and
Methods for Measuring SameTo: Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

) Art Unit: 1615
)
) Our Ref.: 702.163
)
) Examiner: Unassigned
)

I hereby certify that this correspondence is being:

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on this 22nd day of December, 2004By: 
Patricia C. PowellINFORMATION DISCLOSURE STATEMENT

The Examiner is requested to consider the documents contained in the attached Information Disclosure Statement during the examination of the above-identified patent application.

Respectfully submitted,

Dated: December 22, 2004

Shawn D. Sentilles
Reg. No. 38,299
Wright Medical Technology, Inc.
5677 Airline Road
Arlington, Tennessee 38002-9501
(901) 867-4314

DEC 22 2004

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete If Known

Application Number	10/743,620
Filing Date	12/22/2003
First Named Inventor	Barbara E. Blum
Art Unit	1615
Examiner Name	Unassigned
Attorney Docket Number	702.163

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- US2003/0008328	01/09/2003	Wironen	
		US- 4294753	10/13/1981	Urist	
		US- 4455256	06/19/1984	Urist	
		US- 4472840	09/25/1984	Jefferies	
		US- 4563489	01/07/1986	Urist	
		US- 4596574	06/24/1986	Urist	
		US- 4619989	10/28/1986	Urist	
		US- 4627982	12/09/1986	Seyedin	
		US- 4678470	07/07/1987	Nashef	
		US- 4789732	12/06/1988	Urist	
		US- 5073373	12/17/91	O'Leary	
		US- 5236456	08/17/1993	O'Leary	
		US- 5275954	01/04/1994	Wolfinbarger	
		US- 5290558	03/01/1994	O'Leary	
		US- 5298222	03/29/1994	O'Leary	
		US- 5439684	08/08/1995	Prewett	
		US- 5531791	07/02/1996	Wolfinbarger	
		US- 5707962	01/13/1998	Chen	
		US- 5904718	05/18/1999	Jefferies	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/743,620
		Filing Date	12/22/2003
		First Named Inventor	Barbara E. Blum
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Sheet	2	of	2
		Attorney Docket Number	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 2 of 2

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Substitute for form 1449B/PTO				Complete if Known	
				<i>Application Number</i>	10/743,620
				<i>Filing Date</i>	12/22/2003
				<i>First Named Inventor</i>	Barbara E. Blum
				<i>Art Unit</i>	1615
				<i>Examiner Name</i>	Unassigned
Sheet	1	of	2	<i>Attorney Docket Number</i>	702.163

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
		URIST, M.R., et al.: The bone induction principle. Clin. Orthop. Rel. Res. 53: 243-283 (1967)				
		CANALIS, E., et al.: Isolation of growth factors from adult bovine bone. Calcif. tissue Int. 43: 346-351 (1988)				
		HAUSCHKA, P.V., et al.: Growth Factors in Bone Matrix. Isolation of multiple types by affinity chromatography on heparin-sepharose. J. Biol. Chem. 261(27): 12665-12674 (1986)				
		HONSAWEK, S., et al.: BMP-4 content in human demineralized bone matrix correlates with osteoinductivity. Proc. 49th annual meeting ORS, Vol. 28, New Orleans, LA, paper 0020				
		KAWABATA, M., et al.: Bone morphogenetic proteins. Skeletal Growth Factors (Canalis, E., editor) Lippincott Williams & Wilkins, Philadelphia, PA, pp. 269-290 (2000)				
		MIZUTANI, H., et al.: The nature of bone morphogenetic protein (BMP) fractions derived from bovine bone matrix gelatin. Clin. Orthop. Rel. Res. 171: 213-223 (1982)				
		MOHAN, S., et al.: Therapeutic potential of TGF- β , BMP and FGF in the treatment of bone loss. In: Principles of Bone Biology (Bilezikian, J.P., et al., eds.) Academic Press, San Diego, CA, Chapter 80, pp. 1111-1123 (1996)				
		SAMPATH, T.K., et al.: Dissociative extraction and reconstitution of extracellular matrix components involved in local bone differentiation. Proc. Natl. Acad. Sci. USA 78(12): 7599-7603 (1981)				
		URIST, M.R., et al.: Solubilized and insolubilized bone morphogenetic protein. Proc. Natl. Acad. Scu. USA 76(4): 1828-1832 (1979)				
		URIST, M.R., et al.: A bovine low molecular weight bone morphogenetic protein (BMP) fraction. Clin. Orthop. Rel. Res. 162: 219-231 (1982)				

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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